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LETTER REGARDING REGULATORY REVIEW AND CONCURRENCE ON FINAL WORK
PLAN FOR ENHANCED BIODEGRADATION INTERIM REMEDIAL ACTION AT STUDY AREA
36 NTC ORLANDO FL
12/20/2000
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Jeb Bush
Governor

Department of Environmental Protection

09.01.36.0001

00336

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

December 20, 2000

Mr. Wayne Hansel
Code 18B7
Southern Division
Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, South Carolina 29419-0068

RE: Final Work Plan for Enhanced Biodegradation, Interim
Remedial Action at Study Area 36, Naval Training Center,
Orlando, Florida

Dear Mr. Hansel:

The Department has completed its review of the Final Work Plan for Enhanced Biodegradation, Interim Remedial Action at Study Area 36, Naval Training Center Orlando, dated November 2000 (received November 16, 2000). The Work Plan is accepted as final and the work specified in the Work Plan should be implemented. I have attached to this letter a memorandum with Greg Brown's Professional Engineer certification of approval and a memorandum from Jorge Caspary.

If I can be of any further assistance with this matter, please contact me at (850)488-3693.

Sincerely,

David P. Grabka
Remedial Project Manager

cc: Barbara Nwokike, Navy SouthDiv
Nancy Rodriguez, USEPA Region 4
Richard Allen, HLA, Jacksonville
Steve McCoy, TetraTech NUS, Oak Ridge
Steve Tsangaris, CH2M Hill, Tampa
Bill Bostwick, FDEP Central District

TJB

JJC

ESN

Florida Department of
Environmental Protection

Memorandum

TO: David Grabka, Remedial Project Manager, Technical Review Section

THROUGH: Tim Bahr, P.G., Supervisor, Technical Review Section *TJB*

FROM: Greg Brown, P.E., Professional Engineer II, *GB*
Technical Review Section

DATE: December 20, 2000

SUBJECT: Final Work Plan for Enhanced Biodegradation Interim Remedial Action at Study Area 36, Naval Training Center, Orlando, Florida.

Mr. Jorge Caspary, P.G., in the Technical Review Section reviewed under my supervision the subject engineering document dated November 2000 (received November 16, 2000). He recommends approval (see attached memorandum). Mr. Steven N. Tsangaris, P.E., Florida Professional Engineer No. 47091, is the engineer of record for this final engineering document.

The subject final report and the supplemental data submitted November 14, 2000 (Injection Well Inventory Information) are adequate for their intent. Please consider this memorandum the engineering certification of approval. Please forward the Injection Well Inventory Information form with a copy of this memorandum to Mr. Deuerling, UIC Section, for his files. Call me at (850) 488-3935 if you have questions.

Gregory M. Brown
Gregory M. Brown, P.E.
Professional Engineer No. 42194
Expires February 28, 2001
12/20/00
Date

Encl.

Memorandum

Florida Department of
Environmental Protection

TO: David Grabka, RPM
Technical Review Section

FROM: Jorge R. Caspary J.R.C.
Technical Review Section

DATE: December 7, 2000

SUBJECT: Final Workplan for Enhanced Biodegradation IRA
Study at Area 36, ONTC

I have reviewed the subject document dated November 2000 (received November 16, 2000). The document is signed and sealed by Mr. Steve Tsangaris, P.E. of CH2M Hill as the responsible engineer.

This workplan is very similar in scope to the workplan for Area 39 where vegetable oil will act as the carbon source to stimulate reductive dehalogenation. My previous review of the draft workplan for Area 39 emphasized the need to develop a thorough understanding of the hydraulic conductivity and porosity of the aquifer given the density and viscosity of the carbon source. This document describes the various methods that will be used to estimate hydraulic conductivity and all are adequate. Please note that it has been brought to my attention that vegetable oil injection will not be addressed by the Underground Injection Control (UIC) Section and that the aquifer tracer work has been discontinued. These steps are reflected in this document; therefore, the consultant may proceed with injecting the fluid at its earliest convenience.

Please call me at (850) 921-9986 if you have any questions.